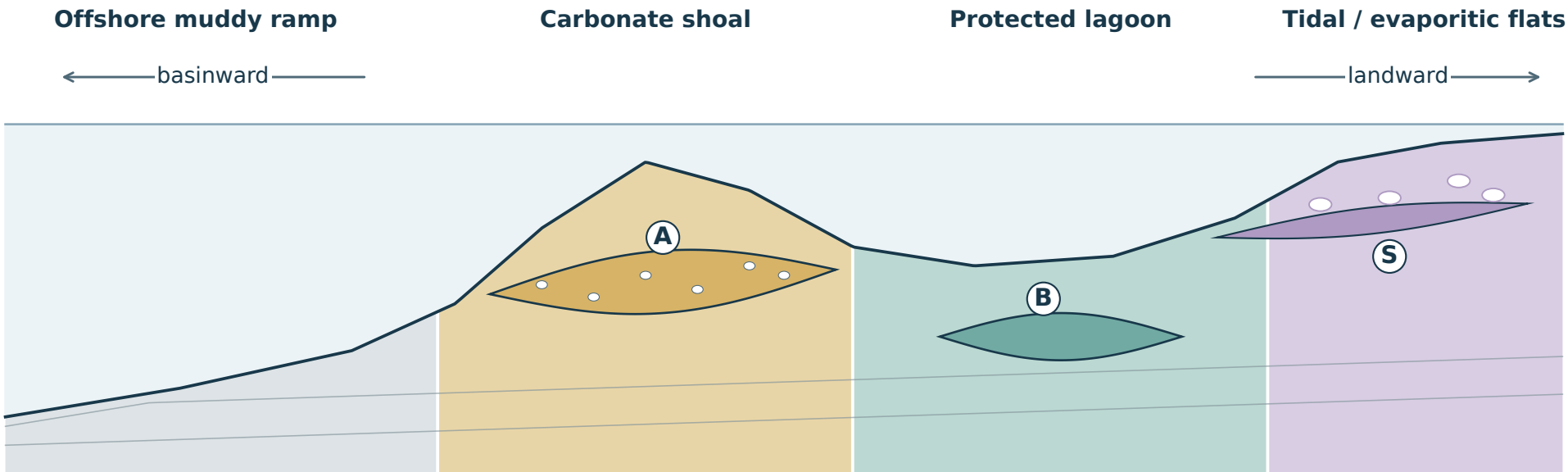
Carbonate ramp: subenvironments and reservoir filters

Regional facies concepts from southern Saskatchewan analogues; local axes require correlated wells.



A Grain-rich shoal / flank

Sand pores may survive, or be closed by calcite and anhydrite.

B Dolomitized lagoon

Muddy precursors can become reservoirs if pores connect.

S Tight mud / evaporite

Potential seals must be continuous and survive later alteration.

Conceptual • not to scale • not a mapped paleoshoreline

Sources: Rott & Qing (2005), Figs. 4, 9, pp. 4, 8; Ji & Salad Hersi (2016), Fig. 5, p. 11.

Confidence: regional processes well supported; exact facies boundaries and corridor orientation unresolved.